DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2021-09-13-10** **Date: 08-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03 "
Agency	:	Sri R Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/YNK D/EPMT-01/W.O/151/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-21
Type of Mix	:	Tack coat
Date of Test	:	06-02-21

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-09-13-10** **Date: 25-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	23-01-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Date: 04-02-21

Lab ID	:	CP-RW-2021-09-13-10
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No.37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	01-02-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2021-09-13-10** **Date: 04-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	01-02-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2021-09-13-10** **Date: 30-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	27-01-21
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	27-01-21

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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Note:-

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-09-13-10**	**Date: 06-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."	
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	05-02-21	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	05-02-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	4.8
4	Average percentage	%	4.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/02/2021

Lab ID	:	CP-2021-09-13-10
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	09/01/2021	06/02/2021	151.34 X 150.30 X 149.24	22747	8.371	541.1	23.8	23.4
2	Drain Side Wall Concrete	M20	09/01/2021	06/02/2021	149.53 X 151.87 X 149.78	22710	8.345	519.6	22.9	
3	Drain Side Wall Concrete	M20	09/01/2021	06/02/2021	150.45 X 151.78 X 150.25	22835	8.489	537.7	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/01/2021

Lab ID	:	CP-2021-09-13-10
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	09/01/2021	16/01/2021	150.27 X 150.06 X 151.44	22550	8.103	417.9	18.5	18.6
2	Drain Side Wall Concrete	M20	09/01/2021	16/01/2021	150.57 X 150.11 X 150.41	22603	8.265	413.0	18.3	
3	Drain Side Wall Concrete	M20	09/01/2021	16/01/2021	149.12 X 149.63 X 149.23	22314	8.316	423.0	19.0	

• The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2019-02-15-31** **Date: 18-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-21
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	16-01-21
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/01/2021

Lab ID	:	CP-2021-09-13-10
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	151.99 X 151.58 X 149.89	23040	8.919	425.4	18.5	18.5
2	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	150.58 X 151.78 X 150.59	22855	8.145	426.5	18.7	
3	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	149.75 X 150.23 X 149.43	22496	8.517	410.3	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/01/2021

Lab ID	:	CP-2021-09-13-10
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	151.43 X 151.06 X 150.21	22875	8.483	429.2	18.8	18.6
2	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	149.98 X 149.06 X 150.66	22356	8.836	418.1	18.7	
3	Drain Bottom Slab Concrete	M20	06/01/2021	13/01/2021	150.72 X 150.98 X 150.57	22756	8.367	416.0	18.3	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-09-13-10** **Date: 02-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-12-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	[illegible]an	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-13-10** **Date: 02-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

• The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-13-10** **Date: 02-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	_
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R.K.ARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-09-13-10 **Date: 28-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to cross roads at Escort layout and chikkadinne in ward no - 03."
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, MAHALAKSHMIPURAM, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/151/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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R.KARTHIK RECHAN
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****End of Report****